

**Claims**

1. An axial piston machine (1) with cylinder bores (9)  
arranged in a cylinder drum (4), pistons (10) which  
5 are axially movable in the cylinder bores (9) and  
springs (22) arranged in the cylinder bores (9), each  
piston (10) being pre-stressed against a swash  
plate (13) by a respective spring (22) which is  
supported against the cylinder drum (4),  
10 **characterised in that**  
each spring (22) has a reduction in diameter (23)  
between the upper and lower end.
2. An axial piston machine according to Claim 1,  
15 **characterised in that**  
each of the springs is a helical compression  
spring (22) and in that the reduction in diameter (23)  
reduces the diameter of the course of the outer  
contour of the helical compression spring (22) in a  
20 radially symmetrical circle at each point of the  
centre axis of the helical compression spring (22).
3. An axial piston machine according to Claim 1 or 2,  
**characterised in that**  
25 the reduction in diameter (23) is arranged coaxially  
with the centre axis of the helical compression  
spring (22).
4. An axial piston machine according to one of the  
30 preceding claims,  
**characterised in that**

the reduction in diameter (23) reduces the course of the outer contour of the helical compression spring (22) concavely.

- 5 5. An axial piston machine according to one of the preceding claims,  
**characterised in that**  
the reduction in diameter (23) reduces the diameter of the course of the outer contour of the helical  
10 compression spring (22) most greatly at the height of the centre of the helical compression spring (22).
6. An axial piston machine according to one of the preceding claims,  
15 **characterised in that**  
the reduction in diameter (23) extends from the upper end to the lower end of the helical compression spring (22).
- 20 7. An axial piston machine according to one of the preceding claims,  
**characterised in that**  
the cylinder drum (4) is pre-stressed against a control plate (20) by the helical compression  
25 springs (22).
8. An axial piston machine according to one of the preceding claims,  
**characterised in that**  
30 each helical compression spring (22) is supported in the region around an opening (21) of the cylinder bore (9), which can be connected to a high pressure or low pressure connection.

9. An axial piston machine according to one of the preceding claims,  
**characterised in that**  
5 each piston (10) has a cutout (16) which opens towards the cylinder bore (9).
10. An axial piston machine according to Claim 9,  
**characterised in that**  
10 the cutout (16) is cylindrical.
11. An axial piston machine according to Claim 9 or 10,  
**characterised in that**  
the helical compression spring (22) is supported  
15 against the respective base of the cutout (16).
12. An axial piston machine according to one of the preceding claims,  
**characterised in that**  
20 each helical compression spring (22) is made from and/or coated with spring steel.

Translator's Note

Page 3, lines 4 & 6 of the German: "gleichmäßig" is given twice in the German, but only translated once.